

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-096036

(43)Date of publication of application : 11.04.1995

(51)Int.Cl.

A61M 25/00  
A61M 25/00

(21)Application number : 05-265684

(71)Applicant : TOKIN CORP

(22)Date of filing : 28.09.1993

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## (54) CATHETER

## (57)Abstract:

PURPOSE: To improve the resilience at the front end of the catheter consisting of a tube which is fully or partly made of a superelastic alloy and is coated with a thermoplastic resin by forming the front end of the catheter to a thickness smaller than the thickness in the other parts.

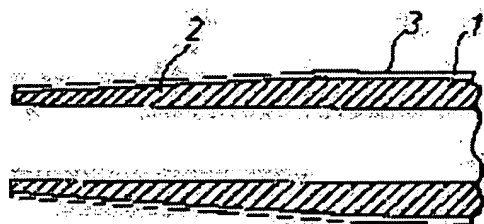
CONSTITUTION: The tube having a required outside diameter is formed by subjecting a Ti-Ni alloy tube contg.

51atm. concn. (51at.%) Ni which is known to exhibit a remarkable shape memory effect incidentally to the

reverse transformation of thermoelastic martensite transformation and a superelastic effect incidentally to

the shape memory effect to cold working. A sintered hard alloy wire is then inserted into the front end 2 of

such tube and is subjected to swaging to pressurize the tube from its outer peripheral direction, by which a thickness gradient is formed in the longitudinal direction of the tube. The tube is then subjected to a heat treatment which is a superelastic treatment. The outer periphery is thereafter coated with the thermoplastic resin and the required catheter having the resilient introducing end is obtd.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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